

The Commonwealth of Massachusetts  
Executive Office of Health and Human Services  
Department of Public Health  
William A. Hinton State Laboratory Institute  
305 South Street, Jamaica Plain, MA 02130

DEVAL L. PATRICK  
GOVERNOR

TIMOTHY P. MURRAY  
LIEUTENANT GOVERNOR

JUDYANN BIGBY, MD  
SECRETARY

JOHN AUERBACH  
COMMISSIONER

12/09/2011

Ryan Mingo  
Assistant District Attorney, Suffolk County

Dear ADA Mingo,

Enclosed is the information you requested in regards to Commonwealth vs. [REDACTED]  
Included are copies of the following:

1. Curriculum Vitae for Annie Dookhan and Peter Piro.
2. Drug Analysis Laboratory Receipt.
3. Control Cards with analytical results for samples # [REDACTED]
4. Analysis sheets with custodial chemist's hand notations and test results.
5. GC/Mass Spectral analytical data for samples # [REDACTED]

Ann Dookhan was the custodial chemist and performed the preliminary testing and net weight for this sample. Peter Piro was analyzed the GC/MS data for this sample.

If you have any questions about these materials, please call me at the number below.

Sincerely,

A handwritten signature in black ink, appearing to read "Annie Dookhan".

Annie Dookhan  
Chemist  
Drug Analysis Lab  
Jamaica Plain, MA. 02130  
(617) 983-6622

## Curriculum Vitae

**Annie Khan (Dookhan)**

### Education:

University of Massachusetts, Boston, Ma, Master of Science in Chemistry.

University of Massachusetts, Boston, Ma, Bachelor of Science in Biochemistry.

### Experience:

2003 – present

Chemist I, II, Massachusetts Department of Public Health, Drug Analysis Laboratory

- \*Responsible for the identification of illicit drugs to determine violations of harmful and narcotic drug laws.
- \*Writing, revising and reviewing Standard Operating Procedures (SOPs) and Protocols.
- \*Responsible for the Quality Control of all analytical instruments, reagents and controls/standards.
- \*Oversee the Quality Control/Quality Assurance program for the Drug Lab.
- \*Maintenance and repairs of all analytical instruments.
- \*Trained in the use of complex analytical instrumentation, microscopes and balances for the purpose of drug analysis.
- \*Qualified as an expert witness in Massachusetts Courts and U.S. District Court.
- \*Completed six-week training course conducted by senior staff within the Department of Public Health, Drug Analysis Laboratory.
- \*Appointed Assistant Analyst by Assistant Commissioner of Public Health, 2004.
- \*Notary Public.

2001 – 2003

QC Analyst I, II, UMMS-Massachusetts Biologic Laboratory, QC Material Control

- \*Completed proficiency training conducted by a member of the staff within the MLB Quality Control and Quality Assurance Department for the Food and Drug Administration.
- \*Method Development for creating new techniques and enhancing vaccines for the QC Dept. and FDA.
- \*Writing, revising and reviewing Standard Operating Procedures (SOPs).
- \*Trained and supervised new chemists and interns for the department.
- \*Routine QC testing of products for the FDA.
- \*Trained in the use of complex analytical instrumentation, and balances for the purpose of QC analysis for product and validation projects.
- \*Calibration, preventive maintenance, QC and QA of analytical instrumentation.
- \*Complete testing of chemicals for Vendor Validation Project for the FDA.
- \*Compendial testing and interpretation of the USP, ACS, FCC, AOAC, Merck Index, PDR, etc.

### Additional Training:

Dept. of Justice – Forensics Professionals. (numerous trainings)

GLP/GMP training with Massachusetts Biologic Laboratory.

QC/QA training according to FDA Codes and Regulations.

GC and GC/MS trainings with Agilent Technologies and Restek.

HPLC and LC/MS/MS trainings with Waters Cooperation.

FTIR training with Spectros.

TOC training with MBL and Sievers.

### Association:

American Chemical Society (ACS)

Northeastern Association of Forensics Science (NEAFS)

## Curriculum Vitae

Peter Piro

### EDUCATION

Boston University

B.A. in Chemistry and Minor in Biology, 1989

### HONORS

Magna Cum Laude, 3.6 GPA

Graduated with Distinction in Chemistry

Valedictorian of the Chemistry Department

### EXPERIENCE

#### Department of Public Health/State Laboratory Institute

Chemist III, II, I/ Assistant Analyst

December 1991-Present

Supervise the operation and maintenance of the Gas Chromatography/Mass Spectrometry Laboratory. Analyze controlled substances for State and Federal law enforcement agencies. Qualified as an expert witness in Massachusetts courts and U.S. District Court.

#### Massachusetts Health Research Institute

Laboratory Technician

September 1990-December 1991

Researched the seasonal and special occurrences of DSP and PSP in shellfish samples harvested from coastal waters and Georges Bank.

### TRAINING AND ORGANIZATIONS

- \* Completed a six-week training course by senior staff within the Department of Public Health Drug Analysis laboratory.
- \* Appointed Assistant Analyst by the Assistant Commissioner of Public Health in February 1991.
- \* Elected as a Regular Member to the Northeastern Association of Forensic Chemists on October 27<sup>th</sup> 1995.
- \* Completed training in Mass Spectrometry given by the Food and Drug Administration/Forensic Chemistry Center on November 2002.
- \* Completed training in Mass Spectrometry Troubleshooting and Maintenance, October 25<sup>th</sup> 2002, at Agilent Technologies.
- \* Notary Public since 1993.



DRUG RECEIPT

CC #

BOOK #

64

PAGE #

54

DESTRUCTION #

District/Unit

A-1 DCU

Name & Rank of Arresting Officer

S/D Wm DWAN

ID#

10060

DEFENDANT'S NAME

ADDRESS

CITY

STATE

DORCH

MA

BOSTON

MA

BOSTON

MA

DESCRIPTION OF ITEMS SUBMITTED

GROSS  
QUANTITY

GROSS  
WEIGHT

LAB USE ONLY

ANALYSIS  
NUMBER

CRACK COCAINE

1 p/b

1.16g

CRACK COCAINE

1 p/b

2.04g

CRACK COCAINE

1 p/b

1.63g

To be completed by ECU personnel only

Name and Rank of Submitting Officer

*[Signature]*

ID#

9370

Received by

*[Signature]*

Date

3-9-11

ECU Control #

No. [REDACTED] Date Analyzed: 3-21-11  
City: Boston D.C.U. Police Dept.  
Officer: P.O. Diana Lopez  
Def: [REDACTED]  
Amount: Subst: SUB  
No. Cont: 1 Cont: pb  
Date Rec'd: 03/09/2011 No. Analyzed:  
Gross Wt.: 1.66 Net Weight: 0.14  
# Tests: 6 ASD  
2 P.P.M.  
Prelim: Cocaine (C) Findings: Cocaine

No. [REDACTED] Date Analyzed: 3-21-11  
City: Boston D.C.U. Police Dept.  
Officer: P.O. Diana Lopez  
Def: [REDACTED]  
Amount: Subst: SUB  
No. Cont: 1 Cont: pb  
Date Rec'd: 03/09/2011 No. Analyzed:  
Gross Wt.: 2.04 Net Weight: 0.09  
# Tests: 6 ASD  
2 P.P.M.  
Prelim: Cocaine (C) Findings: Cocaine

No. [REDACTED] Date Analyzed: 3-21-11  
City: Boston D.C.U. Police Dept.  
Officer: P.O. Diana Lopez  
Def: [REDACTED]  
Amount: Subst: SUB  
No. Cont: 1 Cont: pb  
Date Rec'd: 03/09/2011 No. Analyzed:  
Gross Wt.: 1.63 Net Weight: 0.09  
# Tests: 6 ASD  
2 P.P.M.  
Prelim: Cocaine (C) Findings: Cocaine

# DRUG POWDER ANALYSIS FORM

SAMPLE #                      AGENCY Boston ANALYST ADD

No. of samples tested:            Evidence Wt.           

## PHYSICAL DESCRIPTION:

off white powdered substance  
in 1 pb

Gross Wt ( ): 0.2052

Gross Wt ( ):           

Pkg. Wt:           

Net Wt: 0.1445

## PRELIMINARY TESTS

### Spot Tests

Cobalt  
Thiocyanate ( - ) +

Marquis -

Froehde's -

Mecke's -

### Microcrystalline Tests

Gold  
Chloride +

TLTA ( - ) +

### OTHER TESTS

## PRELIMINARY TEST RESULTS

RESULTS cocaine

DATE 3-18-11

## GC/MS CONFIRMATORY TEST

RESULTS cocaine

MS  
OPERATOR 330

DATE 3-21-11

# DRUG POWDER ANALYSIS FORM

SAMPLE #                      AGENCY Boston ANALYST ADJ

No. of samples tested:            Evidence Wt.                     

## PHYSICAL DESCRIPTION:

off white chunky substance  
17.95

Gross Wt ( ): 0.1163

Gross Wt ( ):                     

Pkg. Wt:                     

Net Wt: 0.0993

## PRELIMINARY TESTS

### Spot Tests

Cobalt  
Thiocyanate ( - ) +

Marquis -

Froehde's -

Mecke's -

### Microcrystalline Tests

Gold  
Chloride +

TLTA ( - ) +

### OTHER TESTS

## PRELIMINARY TEST RESULTS

RESULTS cocaine

DATE 3-18-11

## GC/MS CONFIRMATORY TEST

RESULTS cocaine

MS  
OPERATOR RJP

DATE 3-21-11

# DRUG POWDER ANALYSIS FORM

SAMPLE #                      AGENCY Boston ANALYST ASN

No. of samples tested:            Evidence Wt.           

## PHYSICAL DESCRIPTION:

off white chunky substance  
in pps

Gross Wt ( ): 0.1314

Gross Wt ( ):           

Pkg. Wt:           

Net Wt: 0.0955

## PRELIMINARY TESTS

### Spot Tests

Cobalt  
Thiocyanate ( - ) +

Marquis -

Froehde's -

Mecke's -

### Microcrystalline Tests

Gold  
Chloride +

TLTA ( - ) +

### OTHER TESTS

## PRELIMINARY TEST RESULTS

RESULTS cocaine

DATE 3-18-11

## GC/MS CONFIRMATORY TEST

RESULTS cocaine

MS  
OPERATOR PJP

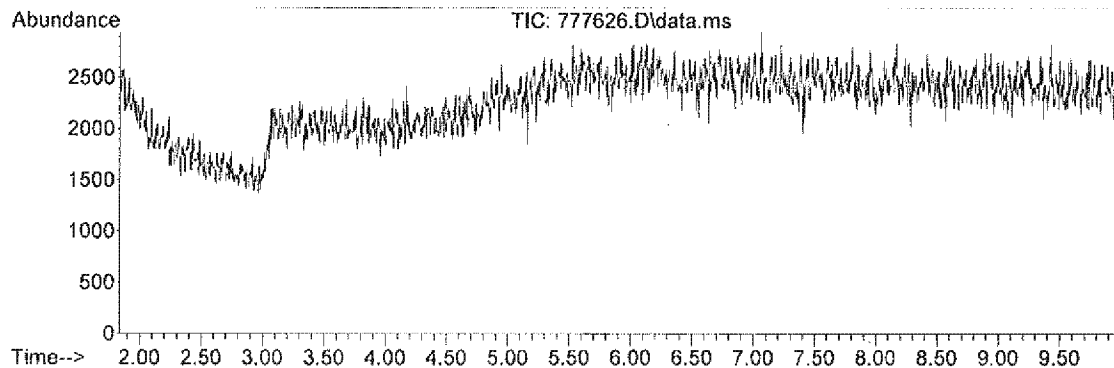
DATE 3-21-11



✓ P.P:rd  
12-9-11

## Information from Data File:

File Name : C:\msdchem\1\data\SYSTEM6\03\_19\_11\777626.D  
Operator : ASD  
Date Acquired : 19 Mar 2011 19:45  
Sample Name : BLANK  
Submitted by : ASD  
Vial Number : 1  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

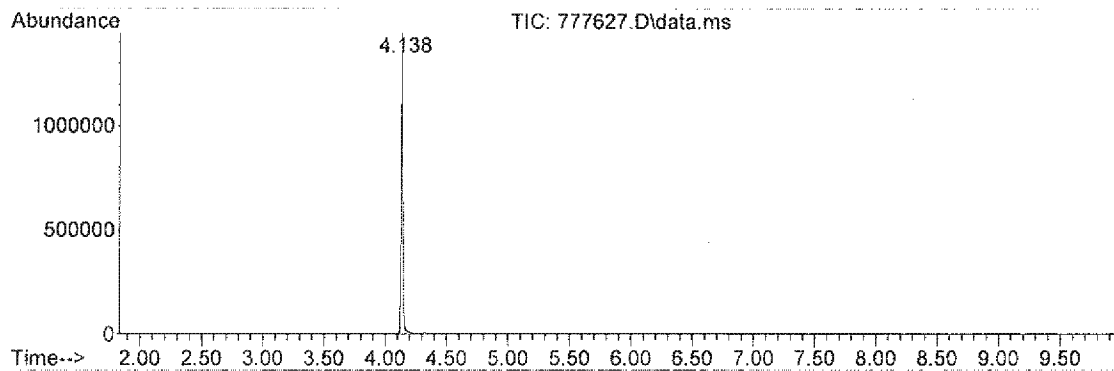


Ret. Time	Area	Area %	Ratio %
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\*\*\*NO INTEGRATED PEAKS\*\*\*

## Information from Data File:

File Name : C:\msdchem\1\data\SYSTEM6\03\_19\_11\777627.D  
Operator : ASD  
Date Acquired : 19 Mar 2011 19:58  
Sample Name : COCAINE STD  
Submitted by : ASD  
Vial Number : 27  
AcquisitionMeth: DRUGS.M  
Integrator : RTE



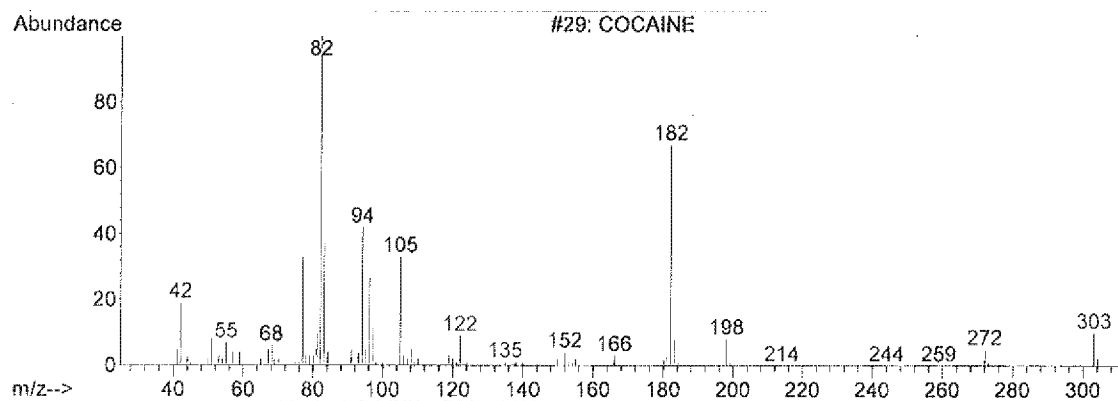
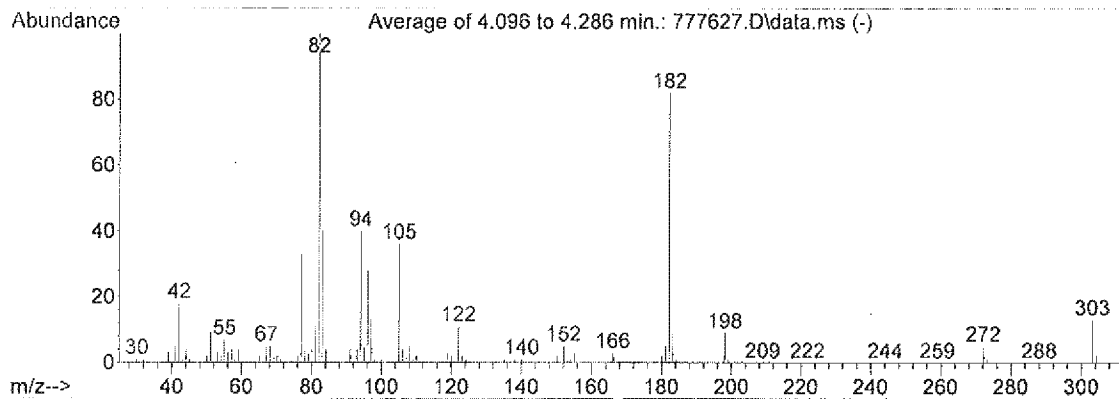
Ret. Time	Area	Area %	Ratio %
4.138	1353311	100.00	100.00

## Information from Data File:

File Name : C:\msdchem\1\data\SYSTEM6\03\_19\_11\777627.D  
Operator : ASD  
Date Acquired : 19 Mar 2011 19:58  
Sample Name : COCAINE STD  
Submitted by : ASD  
Vial Number : 27  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

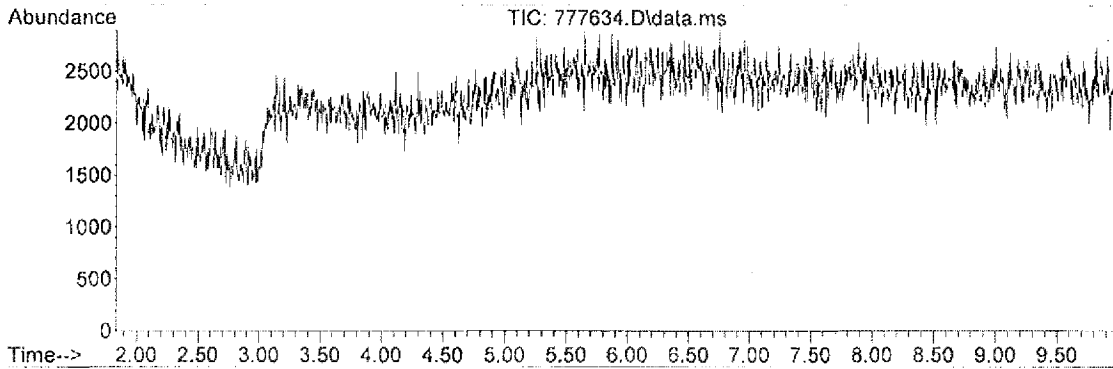
Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST08.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	4.14	C:\Database\SLI.L COCAINE	000050-36-2	99



## Information from Data File:

File Name : C:\msdchem\1\data\SYSTEM6\03\_19\_11\777634.D  
Operator : ASD  
Date Acquired : 19 Mar 2011 21:30  
Sample Name : BLANK  
Submitted by : ASD  
Vial Number : 1  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

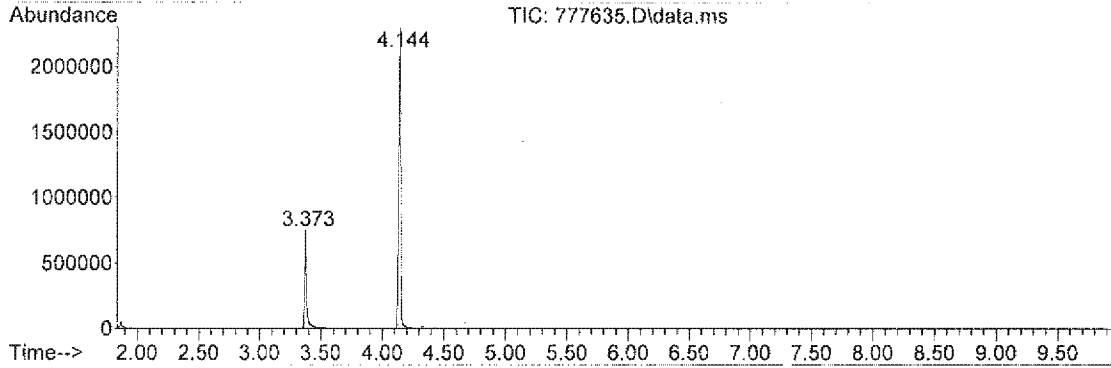


Ret. Time	Area	Area %	Ratio %
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\*\*\*NO INTEGRATED PEAKS\*\*\*

Information from Data File:

File Name : C:\msdchem\1\data\SYSTEM6\03\_19\_11\777635.D  
 Operator : ASD  
 Date Acquired : 19 Mar 2011 21:43  
 Sample Name : XXXXXXXXXX  
 Submitted by : ASD  
 Vial Number : 35  
 AcquisitionMeth: DRUGS.M  
 Integrator : RTE



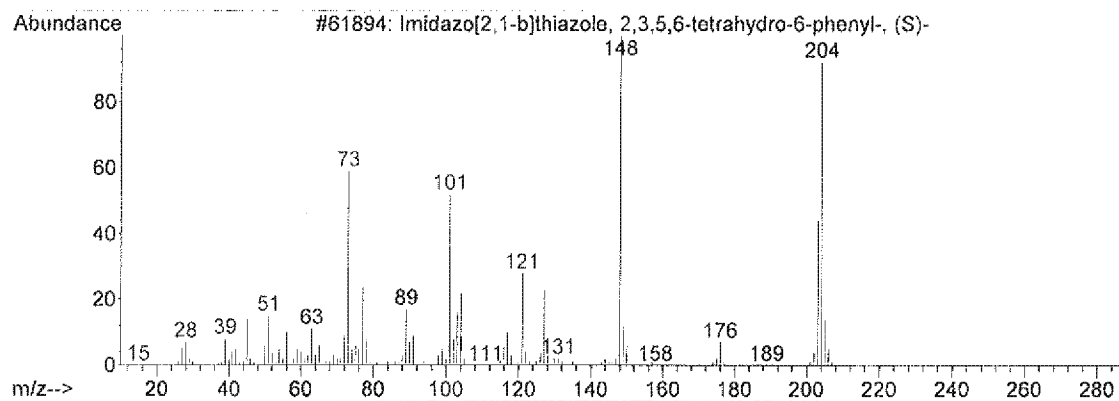
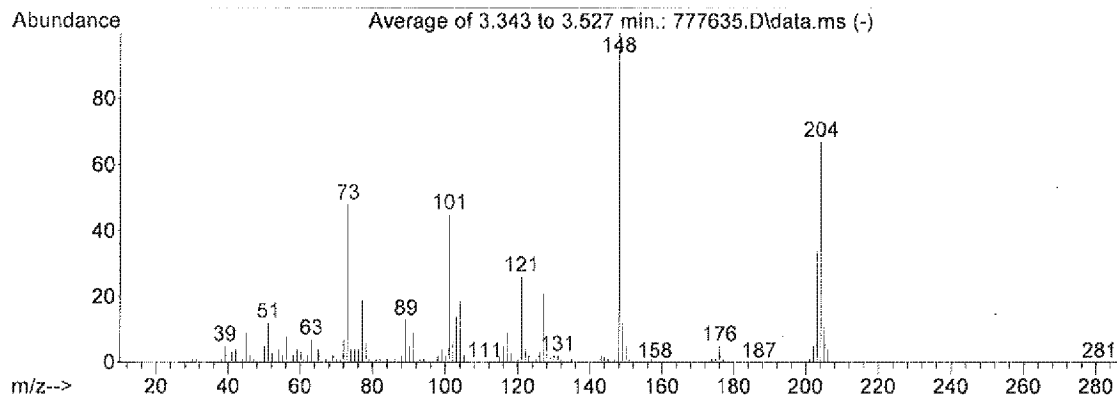
Ret. Time	Area	Area %	Ratio %
3.373	826296	24.06	31.67
4.144	2608677	75.94	100.00

## Information from Data File:

File Name : C:\msdchem\1\data\SYSTEM6\03\_19\_11\777635.D  
Operator : ASD  
Date Acquired : 19 Mar 2011 21:43  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 35  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST08.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	3.37	C:\Database\NIST08.L		
		Imidazo[2,1-b]thiazole, 2,3,5,6-tet	014769-73-4	99
		Levamisole	006649-23-6	99
		Levamisole	006649-23-6	99

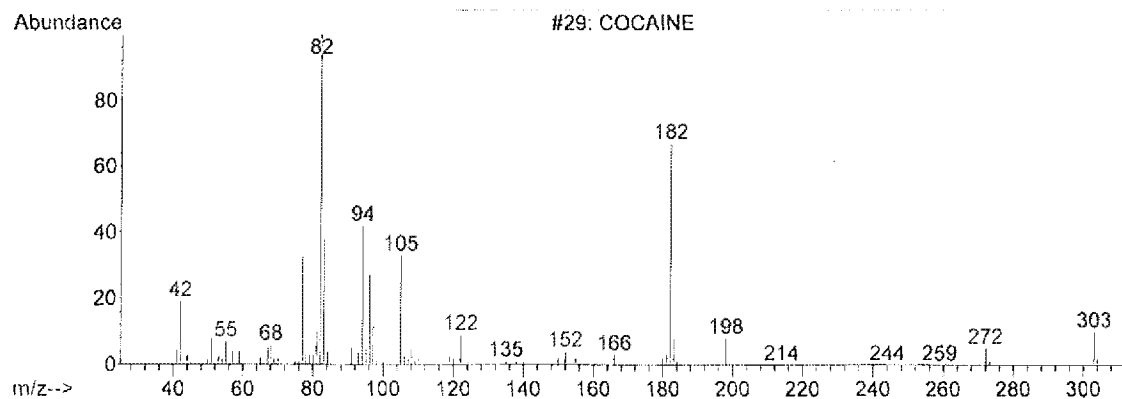
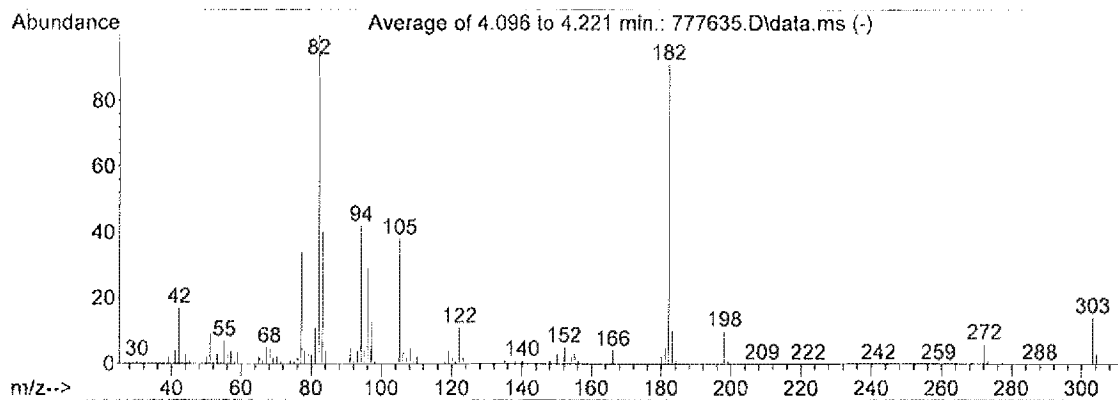


## Information from Data File:

File Name : C:\msdchem\1\data\SYSTEM6\03\_19\_11\777635.D  
Operator : ASD  
Date Acquired : 19 Mar 2011 21:43  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 35  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

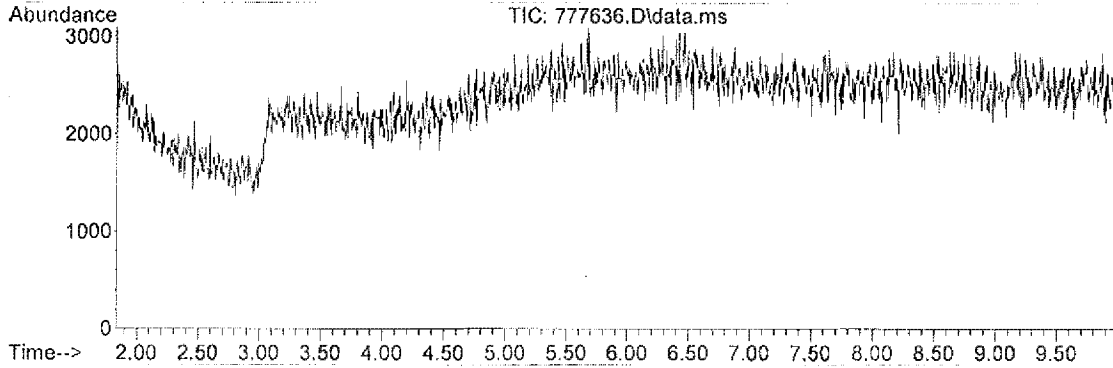
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C:\Database\NIST08.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
2	4.14	C:\Database\SLI.L COCAINE	000050-36-2	99



## Information from Data File:

File Name : C:\msdchem\1\data\SYSTEM6\03\_19\_11\777636.D  
Operator : ASD  
Date Acquired : 19 Mar 2011 21:56  
Sample Name : BLANK  
Submitted by : ASD  
Vial Number : 1  
AcquisitionMeth: DRUGS.M  
Integrator : RTE



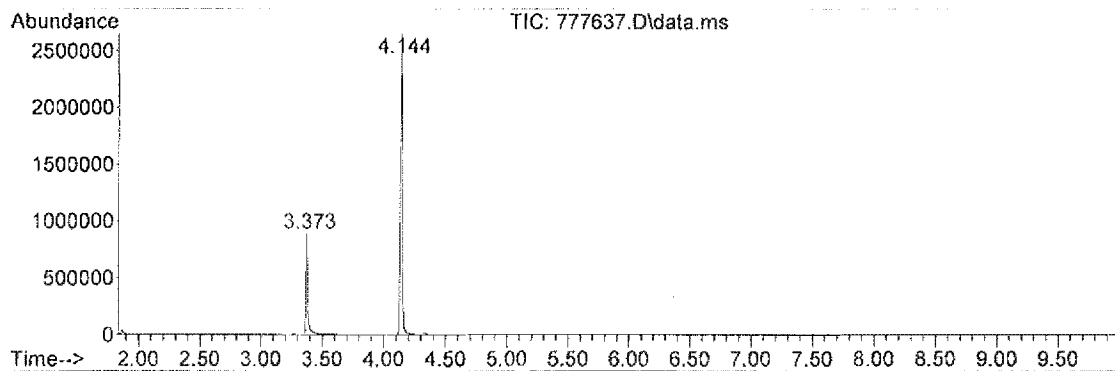
Ret. Time	Area	Area %	Ratio %
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\*\*\*NO INTEGRATED PEAKS\*\*\*



## Information from Data File:

File Name : C:\msdchem\1\data\SYSTEM6\03\_19\_11\777637.D  
Operator : ASD  
Date Acquired : 19 Mar 2011 22:09  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 37  
AcquisitionMeth: DRUGS.M  
Integrator : RTE



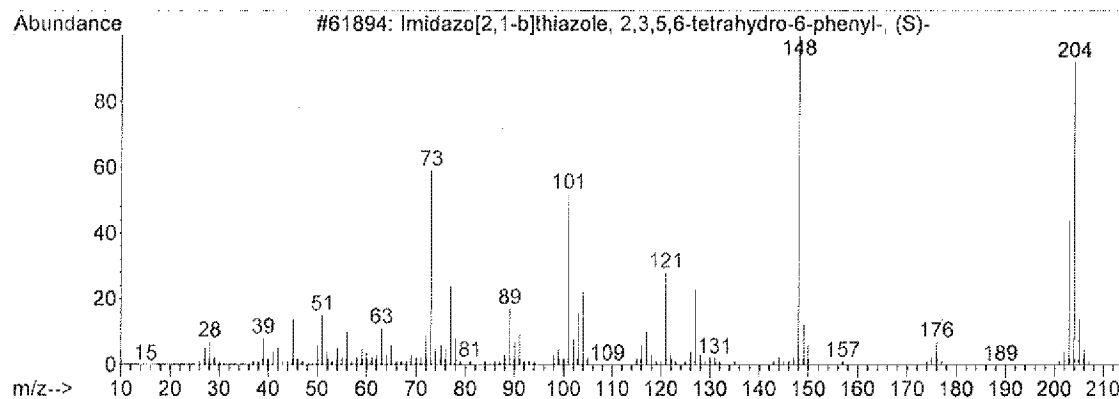
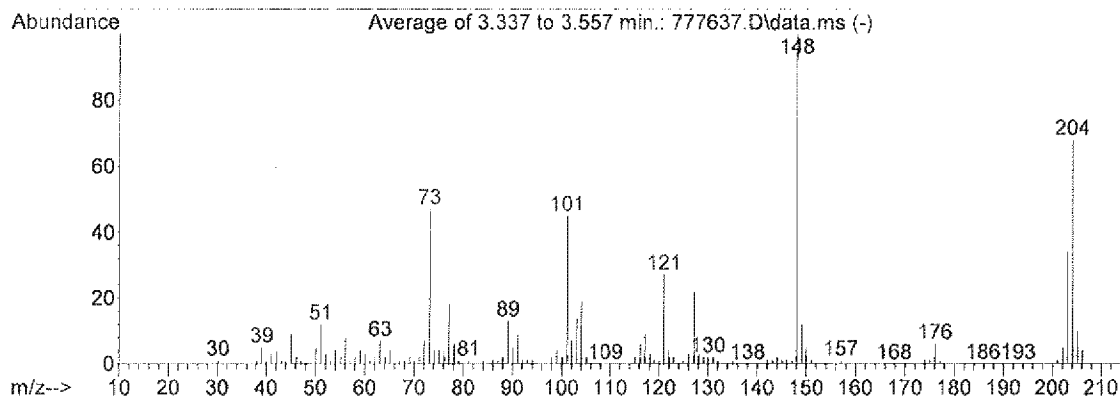
Ret. Time	Area	Area %	Ratio %
3.373	960860	23.82	31.26
4.144	3073489	76.18	100.00

## Information from Data File:

File Name : C:\msdchem\1\data\SYSTEM6\03\_19\_11\777637.D  
Operator : ASD  
Date Acquired : 19 Mar 2011 22:09  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 37  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST08.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	3.37	C:\Database\NIST08.L		
		Imidazo[2,1-b]thiazole, 2,3,5,6-tet	014769-73-4	99
		Levamisole	006649-23-6	99
		Levamisole	006649-23-6	98

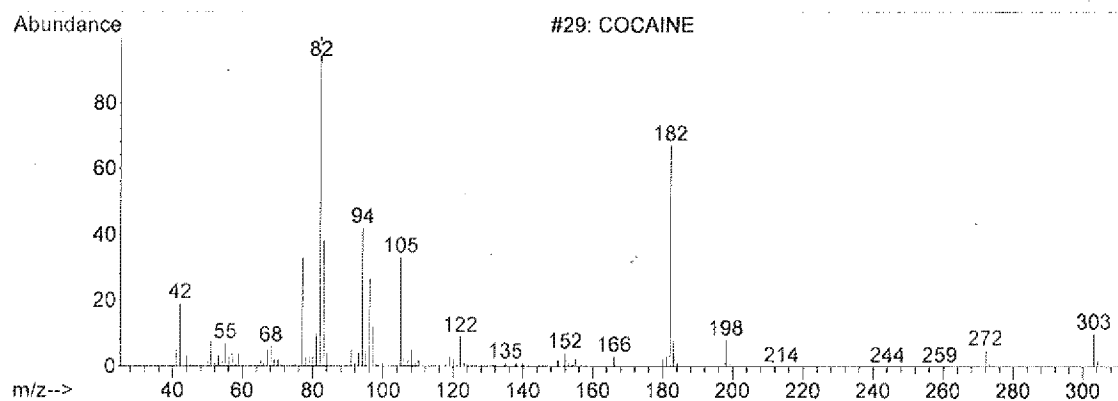
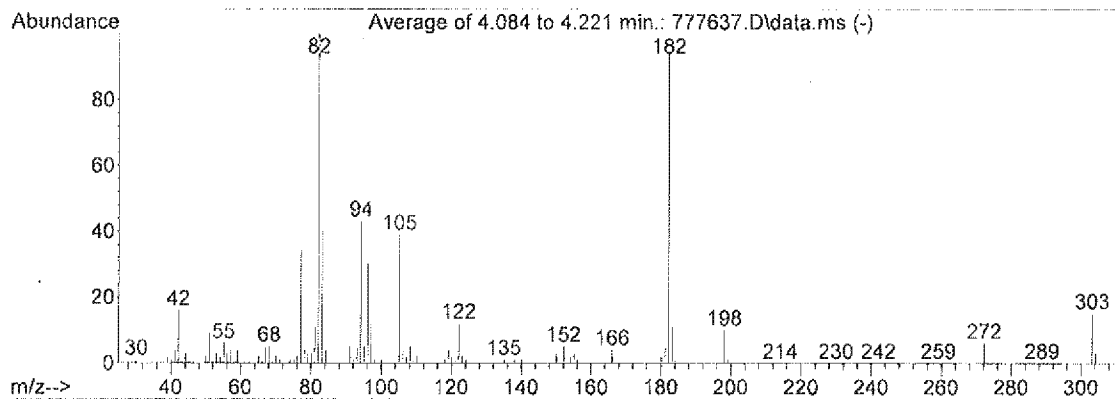


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File Name : C:\msdchem\1\data\SYSTEM6\03\_19\_11\777637.D  
Operator : ASD  
Date Acquired : 19 Mar 2011 22:09  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 37  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

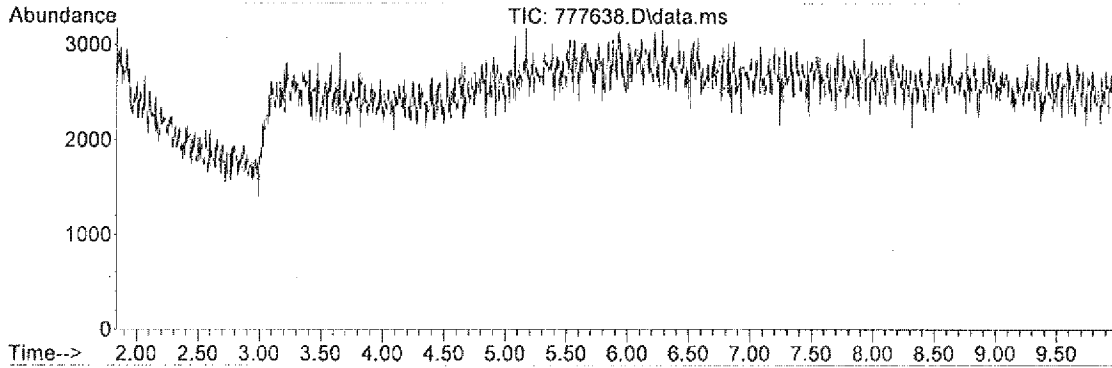
Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST08.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
2	4.14	C:\Database\SLI.L COCAINE	000050-36-2	99



## Information from Data File:

File Name : C:\msdchem\1\data\SYSTEM6\03\_19\_11\777638.D  
Operator : ASD  
Date Acquired : 19 Mar 2011 22:23  
Sample Name : BLANK  
Submitted by : ASD  
Vial Number : 1  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

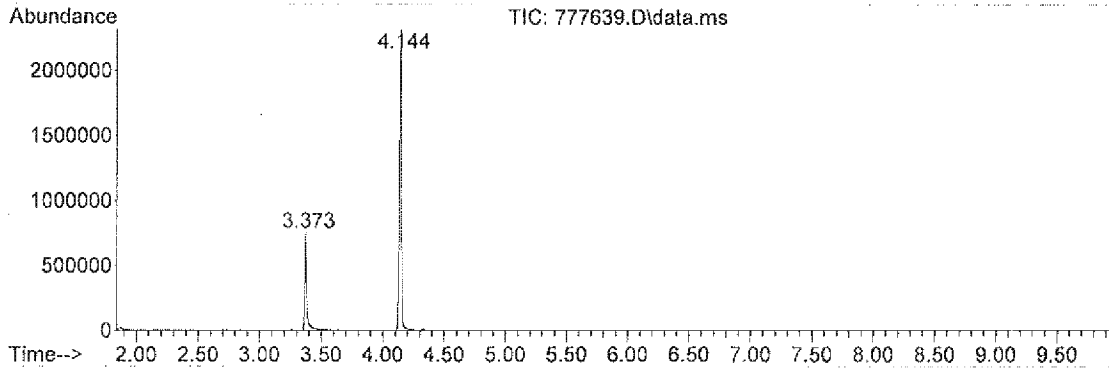


Ret. Time	Area	Area %	Ratio %
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\*\*\*NO INTEGRATED PEAKS\*\*\*

Information from Data File:

File Name : C:\msdchem\1\data\SYSTEM6\03\_19\_11\777639.D  
 Operator : ASD  
 Date Acquired : 19 Mar 2011 22:36  
 Sample Name : XXXXXXXXXX  
 Submitted by : ASD  
 Vial Number : 39  
 AcquisitionMeth: DRUGS.M  
 Integrator : RTE



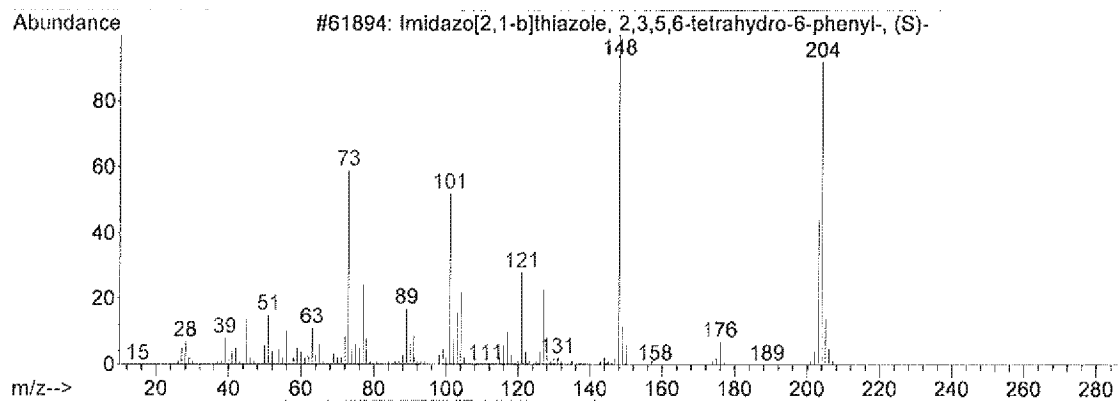
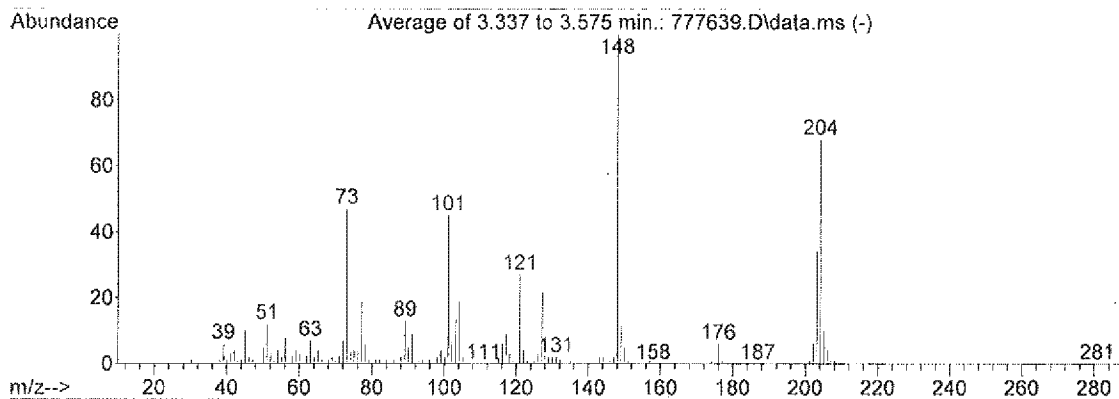
Ret. Time	Area	Area %	Ratio %
3.373	841511	24.23	31.98
4.144	2631664	75.77	100.00

## Information from Data File:

File Name : C:\msdchem\1\data\SYSTEM6\03\_19\_11\777639.D  
Operator : ASD  
Date Acquired : 19 Mar 2011 22:36  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 39  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST08.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	3.37	C:\Database\NIST08.L		
		Imidazo[2,1-b]thiazole, 2,3,5,6-tet	014769-73-4	99
		Levamisole	006649-23-6	99
		Levamisole	006649-23-6	98

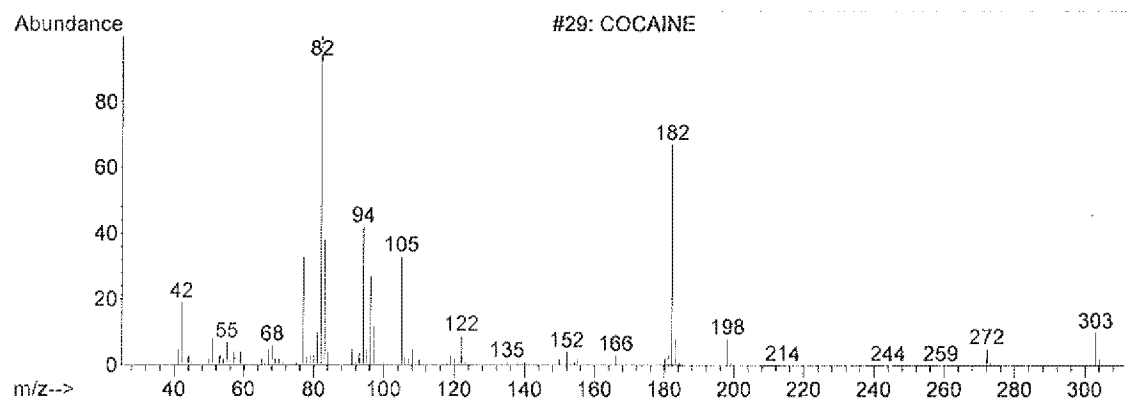
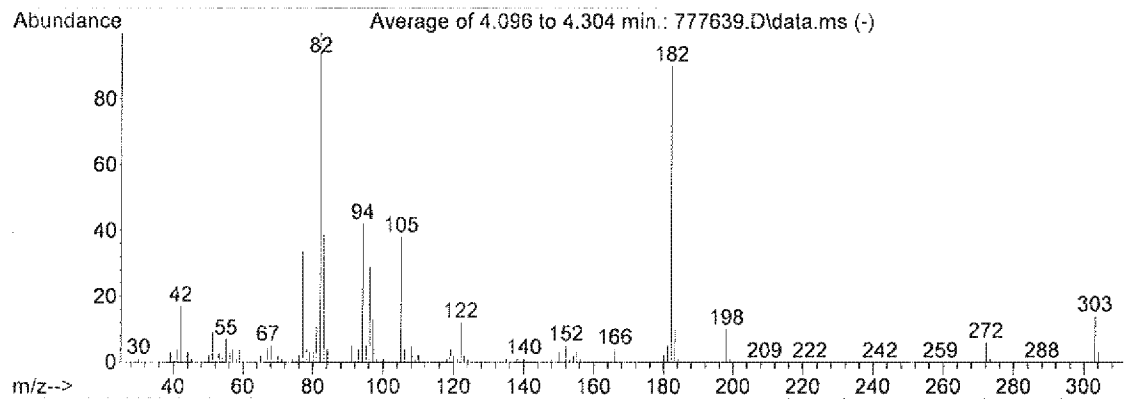


## Information from Data File:

File Name : C:\msdchem\1\data\SYSTEM6\03\_19\_11\777639.D  
Operator : ASD  
Date Acquired : 19 Mar 2011 22:36  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 39  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

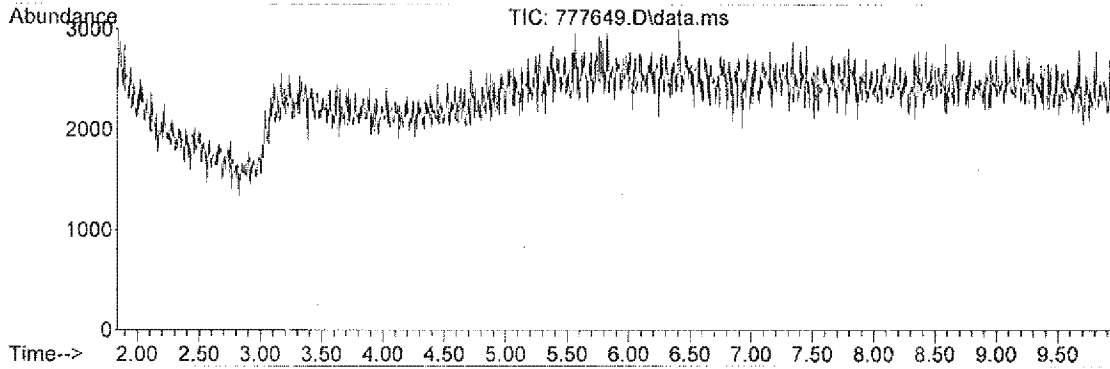
Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST08.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
2	4.14	C:\Database\SLI.L COCAINE	000050-36-2	99



## Information from Data File:

File Name : C:\msdchem\1\data\SYSTEM6\03\_19\_11\777649.D  
Operator : ASD  
Date Acquired : 20 Mar 2011 00:47  
Sample Name : BLANK  
Submitted by : ASD  
Vial Number : 1  
AcquisitionMeth: DRUGS.M  
Integrator : RTE



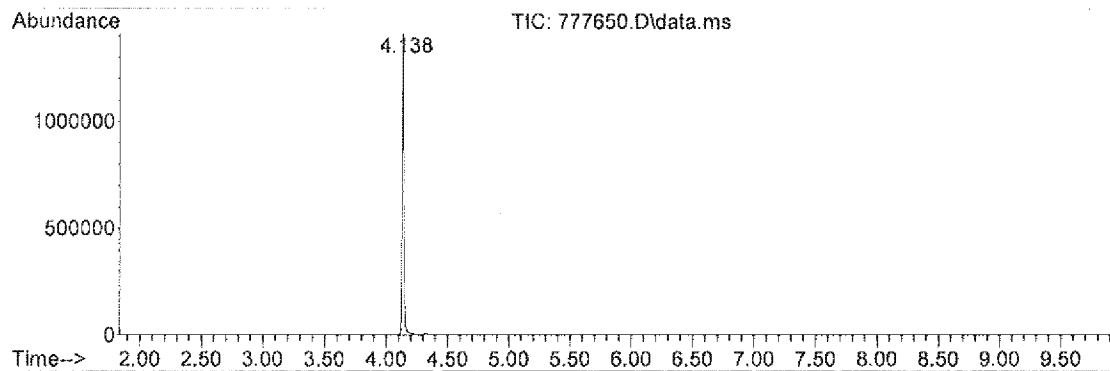
Ret. Time	Area	Area %	Ratio %
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\*\*\*NO INTEGRATED PEAKS\*\*\*



## Information from Data File:

File Name : C:\msdchem\1\data\SYSTEM6\03\_19\_11\777650.D  
Operator : ASD  
Date Acquired : 20 Mar 2011 1:00  
Sample Name : COCAINE STD  
Submitted by : ASD  
Vial Number : 27  
AcquisitionMeth: DRUGS.M  
Integrator : RTE



Ret. Time	Area	Area %	Ratio %
4.138	1360768	100.00	100.00

## Information from Data File:

File Name : C:\msdchem\1\data\SYSTEM6\03\_19\_11\777650.D  
Operator : ASD  
Date Acquired : 20 Mar 2011 1:00  
Sample Name : COCAINE STD  
Submitted by : ASD  
Vial Number : 27  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST08.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	4.14	C:\Database\SLI.L COCAINE	000050-36-2	99

